

## Specification

10mm Pixel Pitch with SMD LEDs

# R10

Large scale LED panel

A modular system for indoor applications



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**Document version**  
**LH-R10-SPEC-1.0**

## R10 LED Panel Specifications

Parameter	Unit	R10
Brightness	nits	2000
Colour temperature	deg. K	6,500
Viewing angle - Horizontal (50% brightness)	deg.	140
Viewing angle - Vertical (50% brightness)	deg.	140
Panel weight	kg	21
Panel diagonal	mm	800
Panel width	mm	640
Panel height	mm	480
Panel depth	mm	120
Panel area	sq. m.	0.3072
Panel material		Epoxy paint coated aluminum
Aspect ratio		4:3
Ingress protection (front/rear)	IP	IP31
Operating temperature range	deg C	0 to +35
Pixel type and configuration		SMD 1,1,1
Pixel pitch	mm	10
Pixel matrix per panel		64 x 48
Pixels per panel		3072
Lines per meter		100
Pixels per sq. meter		10,000
LED per sq. meter		30,000
Recommended minimum viewing distance	m	10
Colours		4.4 trillion
Grey scale (linear)	Levels	16384 levels per colour
Brightness control	Levels	95
Processing depth	bit	14
Panel System Type		M4
Frame rate	Hertz	50/60
Display refresh rate	Hertz	100 kHz
Drive type		Direct
Input voltage (nominal)	VAC	110 to 240
Input power frequency	Hertz	50 to 60
Input power (max)	Watts	250
Input power (typical)	Watts	100
Lifetime (50% brightness)	Hours	50,000
Red wavelength (dominant)	nm	615
Green wavelength (dominant)	nm	530
Blue wavelength (dominant)	nm	470
Panel input format		Propriety SDI
Data interconnection		Serial coaxial BNC
Rigging system		Single king pin fast rig